Index to Volume 11

How to Use This Index

THIS Index is of similar form to the Cumulative Index of this journal, published in November 1939, and is composed of two main divisions: The Author Index and the Subject Index.

The Subject Index to Volume 11 of the *Journal of the Acoustical Society* lists the titles of all the papers and abstracts under twelve section headings as follows: 1, Acoustical Society of America; 2, Architectural Acoustics; 3, Books and Bibliographies; 4, Ear and Hearing; 5, Instruments and Apparatus. Applied Acoustics; 6, Musical Instruments and Music; 7, Noise; 8, Standards; 9, Speech and Singing; 10, Supersonics; 11, Waves and Vibrations; 12, General, Unclassified. Each of these sections is further divided into a considerable number of decimally numbered subjects, which are listed below under the heading, "Classification of Subjects." Each subject is divided into three parts entitled Papers, Subtitles, and Abstracts. Under Papers will be found the original titles of all the papers appearing in the journal on that subject. Under Abstracts are listed the titles of the papers presented at meetings. Since a great amount of valuable material appears in the journal in papers whose titles cannot fully describe all the subjects which the papers cover, many of the subtitles of papers have been indexed under the heading Subtitles. When subtitles covering the material did not appear in the paper, they were written; the captions of some of the figures were also included under this heading. Thus, while the Subtitles portion of the Index is informal, it is hoped that it will increase the probability of finding the desired information quickly.

References on most subjects can be located immediately by a logical use of the Classification of Subjects below. In case the reference sought is of an unusual character such that there is uncertainty as to the subject under which it might have been classified, this can usually be found quite quickly by the process of eliminating the sections and subjects under which it is quite improbable that it might have been listed. In case of doubt, a title has often been listed under a number of subjects. As an example of the direct approach, suppose you wish to find data on the impedance of wool felt. On looking over the section headings it is seen that this comes under the heading Architectural Acoustics, and Subject, Measured Sound Absorption Coefficients. Under Subtitles we find a reference to wool felt and on looking up this paper we find it entitled "Effect of an Absorbing Wall on the Decay of Normal Frequencies," which title of itself would not have suggested the presence of data on wool felt, thus demonstrating the value of having the index of Subtitles.

Obviously, the Author Index is more convenient than the Subject Index when one knows the name of the author of the paper in which he is interested.

The References to Contemporary Papers on Acoustics are identified in each issue by the same decimal numbers listed below, and may be consulted for references in other journals than our own. In Volume 11 these references will be found on pages 156, 263, 370, and 494.

Classification of Subjects

		Page in this Index
1. Acoustical Society of America		
1.1	General, Unclassified	504
1.2	Constitution and By-Laws	504
1.3	History	504
1.5	Meetings	504
1.6	Members and Membership Lists	504
1.7	Letters to the Editor	504
2. Architectural Acoustics		
2.1	General, Unclassified	504
2.2	Auditorium Design (see also 7.6)	504
2.3	Studies of Existing Auditoria	505
2.4	Sound Absorption, Theory and Methods of Measurement (see also 2.5)	505
2.5	Measured Sound Absorption Coefficients	505
2.7	Reverberation, Theory and Calculation of (see also 2.3, 2.4, 2.8, 2.9 and 2.10)	505
2.9	Sound Transmission, Theory and Methods of Measurement (see also 2.9)	506
2.10	Measurements of Sound Transmission	506
2.11	Vibration Insulating Supports	506
3. Books and Bibliographies		
3.1	Book Reviews	506
3.2	Bibliographies	506

4. Ear and Hearing

4.1 General, Unclassified 506
4.2 Anatomy and Physiology of the Ear 506
4.4 Deafness (see also 5.5) 506
4.5 Instruments Relating to Hearing (see also 5.5) 507
4.6 Loudness. Threshold Determinations 507
4.7 Masking (see also 5.5) 507
4.9 Pitch 507
4.10 Subjective Tones 507
4.11 Theories of Hearing 507

5. Applied Acoustics, Instruments and Apparatus

5.3 Acoustical Impedance Measurement (see also 11.4) 507
5.4 Analyzers and Filters. Acoustic Filters. Oscillographs (see also 5.15) 507
5.7 Frequency Standards. Frequency Measuring and Recording Instruments 508
Hearing Instruments (see 4.5 and 5.5)
5.8 Loudspeakers. Horns (see also 5.13 and 5.17) 508
5.9 Microphones, Vibration Microphones, and Microphone Calibration Equipment 508
5.11 Oscillators 508
5.13 Public Address Systems and Sound Picture Installations 508
5.15 Sound Level Meters. Level Recorders. Sound Pressure Measurement (see also 5.4) 508
5.16 Sound Recording and Reproducing 508
Speech Instruments (see 9.6)
5.17 Telephone Receivers 509

6. Musical Instruments and Music

6.1 General, Unclassified 509
6.2 Bells 509
6.5 Organs (see also 6.9) 509
6.6 Pianos 509
6.7 Violin Family 509
6.9 Electronic Musical Instruments 509

7. Noise

7.1 General, Unclassified (see also 5.15) 509
7.7 Machinery Noise 509

9. Speech and Singing

9.1 General, Unclassified 510
9.2 Anatomy of Speech Organs 510
9.4 Frequency of Occurrence of Speech Sounds 510
9.5 Frequency Analyses of Vowels and Other Speech Sounds 510
9.6 Instruments Relating to Speech and Singing 510
9.7 Speech Pitch 510
9.8 Speech Power. Singing Voice Power 510

10. Supersonics (Ultrasonics)

10.1 General, Unclassified 510
10.4 Gases, Supersonic Velocities, Dispersion, and Absorption (see also 11.3) 510
10.5 Liquids, Supersonic Velocities, Dispersion, and Absorption 511
10.6 Solids, Supersonic Velocities, Dispersion, and Absorption 511
10.7 Physical Effects of Supersonic Waves 511

11. Waves and Vibrations

11.1 General, Unclassified 511
11.2 Diffraction and Interference 511
11.3 Propagation of Sound. Absorption during Propagation. Velocity of Sound (see also 10.4) 511
11.4 Radiation from Vibrating Objects. Acoustical Impedance. Mechanical Impedance (see also 5.3) 511
11.5 Sounds of Finite Amplitude 511
11.6 Sound Transmission Through Tubes 511
11.7 Theory of Waves and Vibrating Systems (see also 5.4) 511

12. General, Unclassified 511

Author Index to Volume 11

Numerals in bold face type refer to volume numbers. (A) designates abstracts; (T) designates title only; (L) designates Letter to the Editor.

Arts, Jan. "Bells." **11:** 485(L)—1940
—— Sound of bells. Jottings from my experiences with the sound of bells. The strike note. **11:** 321—1940

Bachem, A. Genesis of absolute pitch. **11:** 434—1940
Ballantine Stuart. Book review. **11:** 255—1939
Bartholomew, Wilmer T. Digest of modern voice research. **11:** 374(A)—1940
—— Paradox of voice teaching. **11:** 446—1940
Baumzweiger, Benjamin. Application of piezoelectric vibration pick-ups to measurement of acceleration, velocity and displacement. **11:** 303, 379(A)—1940
—— Graphical determination of the random efficiency of microphones. **11:** 477—1940
Beasley, W. C. Characteristics and distribution of deafness in the population of the United States. **11:** 166(A)—1939
—— Prevalence of nerve deafness in the population. **11:** 378(T)—1940
Beranek, Leo L. Absolute calibration of microphones (review). **11:** 153—1939
—— Acoustical properties of especially fine toned violins (review). **11:** 257—1939
—— Construction and properties of a variable acoustic resistance standard (review). **11:** 492—1940
—— Electromechanical feed-back system for vacuum-tube voltmeters with logarithmic indication (review). **11:** 366—1940
—— Inhomogeneity of the magnetic field of a dynamic loudspeaker (review). **11:** 261—1939
—— Normal modes and damping of gas bubbles in liquids (review). **11:** 366—1940
—— Normal modes of vibration of rooms with nonplanar walls and an investigation of diffuse sound reflection (review). **11:** 364—1940
—— On new results in research on violins (review). **11:** 490—1940
—— On sound propagation at grazing incidence to porous materials (review). **11:** 489—1940
—— On testing of metals by supersonics (review). **11:** 367—1940
—— On the perception of vibrations (review). **11:** 487—1940
—— Performance of rectangular rooms with one treated surface. **11:** 379(A)—1940
—— Piezoelectric measurements on the absolute auditory threshold for bone conduction (review). **11:** 259—1939
—— Sound Damping in Rigid and Elastic Wall Tubes (review). **11:** 154—1939
—— Supersonic phenomena (review). **11:** 262—1939
—— (see Hunt, F. V.) **11:** 80—1939
Bhatt, N. B. Effect of an absorbing wall on the decay of normal frequencies. **11:** 67, 160(A)—1939
Bilhuber, Paul H. and C. A. Johnson. Influence of the soundboard on piano tone quality. **11:** 166(A)—1939; **11:** 311—1940
Bolt, Richard H. Angular distribution of normal modes. **11:** 160(A)—1939
—— Normal modes of vibration in room acoustics: angular distribution theory. **11:** 74—1939
—— Normal modes of vibration in room acoustics: experimental investigations in nonrectangular enclosures. **11:** 184—1939
Bragg, Sir William. Combination tones in sound. **11:** 5—1939
—— Demonstration of combination tones. **11:** 162(A)—1939
—— Reminiscences in acoustics. **11:** 161(T)—1939
Bray, Charles W. (see Wever, Ernest Glen). **11:** 427—1940
Brillouin, Léon. Acoustical wave propagation in pipes. **11:** 10—1939
—— Discussion. **11:** 100—1939
Brittain, F. H. Loudness of continuous spectrum noise and its application to loudness measurements. **11:** 113—1939
Brooks, J. Woolson. Parasitic infestations in acoustical materials. **11:** 375(A)—1940
Brown, Spencer F. and Dorothy Oliver. Organic speech abnormalities associated with cleft palate. **11:** 376(T)—1940
Burris-Meyer, Harold. Sound in the theater. **11:** 346, 374(T), 380(A)—1940

Chrisler, V. L. Discussion. **11:** 96—1939
Coile, R. C. Development of modern microphones. **11:** 163(A)—1939
—— Parabolic sound concentrator. **11:** 167(A)—1939
Colwell, R. C. (see Stewart, J. K.) **11:** 147—1939
Corey, Victor B. and G. W. Stewart. Alteration in the liquid structure of electrolytes as indicated by acoustic waves. **11:** 378(A)—1940
Cowan, Milton. Studies of the vocal cords in relation to the quality of certain speech sounds. **11:** 376(T), 380(A)—1940
—— **and Paul Griffith.** Applications of the Buchmann-Meyer effect in the calibration of phonograph recording and reproducing equipment. **11:** 380(A)—1940

Darracott, H. T. (see Ham, L. B.) **11:** 333—1940
Dudley, Homer. Remaking speech. **11:** 165(A), 169—1939; **11:** 373(T)—1940
Dunn, H. K. and S. D. White. Statistical measurements on conversational speech. **11:** 278, 374(A)—1940

Edwards, Preston. Suggestion for simplified musical notation. **11:** 323—1940
Eyring, Carl F. Discussion. **11:** 104—1939

Fairbanks, Grant. Recent experimental investigations of vocal pitch in speech. **11:** 373(A), 457—1940
Field, George S. Discussion. **11:** 101—1939

Firestone, F. A. Artificial larynx for speaking and choral singing by one person. **11:** 357—1940
—— Demonstration of how one person can give a public speech or sing a quartet without using his vocal chords. **11:** 376(T)—1940
—— Current publications on acoustics. **11:** 153, 257—1939; **11:** 364, 487—1940
—— References to contemporary papers on acoustics. **11:** 156, 263—1939; **11:** 370, 494—1940
Fletcher, Harvey. Acoustical Society of America. Its aims and trends. **11:** 13, 161(T)—1939
—— Auditory patterns. A demonstration lecture. **11:** 163(A)—1939
Freehafer, J. E. Acoustical impedance of an infinite hyperbolic horn. **11:** 467—1940
Frick, R. H. and P. S. Veneklasen. Audiofrequency harmonic generator system. **11:** 166(A)—1939

Gardner, Mark B. (see Steinberg, John). **11:** 270—1940
Geiger, Paul H. Loudness level to loudness conversion chart. **11:** 308—1940
Glover, Ralph P. Review of cardioid type unidirectional microphones. **11:** 296, 379(A)—1940
Gray, Giles W. Minimum duration of perceptible speech sounds. **11:** 376(T)—1940
Griffith, Paul (see Cowan, Milton). **11:** 380(A)—1940

Hall, William M. Acoustic transmission line for impedance measurement. **11:** 140—1939
Ham, L. B. and H. T. Darracott. Vibratory characteristics of vibraframs. **11:** 333—1940
Harry, W. R. (see Marshall, R. N.) **11:** 164(A)—1939
Hasbrouck, H. J. Comments on paper by Professor F. V. Hunt presented at the meeting of the Acoustical Society of America at Iowa State University. **11:** 382—1940
Horner, George L. Practical application of acoustical correction in university buildings. **11:** 375(A)—1940
Hubbard, J. C. Book review. **11:** 255, 256—1939
Hunt, F. V. Absorption coefficient problem. **11:** 38—1939
—— Concluding remarks. **11:** 106—1939
—— Research on the absorption coefficient problem. **11:** 159(A)—1939
—— **and J. A. Pierce.** Stylus-groove relations and their influence on phonograph reproducer design. **11:** 379(A)—1940
——, **L. L. Beranek and D. Y. Maa.** Analysis of sound decay in rectangular rooms. **11:** 80—1939

Jacobs, C. R. Discussion. **11:** 102—1939
Johnson, C. A. (see Bilhuber, Paul H.) **11:** 166(A)—1939; **11:** 311—1940
Jones, Arthur Taber. Recent investigations of organ pipes. **11:** 122—1939
Jones, R. Clark. On the theory of fluctuations in the decay of sound. **11:** 324; Erratum. 485—1940
Josephson, E. M. Progressive deafness associated with disorders of vitamin A metabolism. **11:** 167(A)—1939

Kent, Earle L. New electronic musical instrument. **11:** 352—1940
Klapman, S. J. Interaction impedance of a system of circular pistons. **11:** 165(A)—1939; **11:** 289—1940
Knudsen, Vern O. Discussion. **11:** 105—1939
—— Ear to the future. **11:** 29, 162(A)—1939
—— Some practical aspects of architectural acoustics. **11:** 375(A), 383—1940
—— (see Watson, N. A.) **11:** 406—1940
Kock, Winston E. Analysis of transients. **11:** 163(A)—1939

Lawrence, Merle (see Wever, Ernest Glen) **11:** 427—1940
Leedy, H. A. Noise and vibration isolation. **11:** 164(A)—1939; **11:** 341—1940
Lewis, Don and Curtis Tuthill. Resonant frequencies and damping constants of resonators involved in the production of sustained vowels "O" and "Ah." **11:** 451—1940
Lifschitz, Samuel. Fluctuation of the hearing threshold. **11:** 118—1939
Lindahl, Robert and Hale J. Sabine. Measurement of impact sound transmission through floors. **11:** 379(A), 401—1940
Lindsay, R. B. Filtration of oblique elastic waves in stratified media. **11:** 165(A), 178—1939
Lloyd, Llewelyn S. Note on just intonation. **11:** 440—1940
Lurie, M. H. Studies of acquired and inherited deafness in animals. **11:** 377(A), 420—1940

Maa, D. Y. (see Hunt, F. V.) **11:** 80—1939
Marshall, R. N. and W. R. Harry. New microphone providing uniform directivity over an extended frequency range. **11:** 164(A)—1939
Martin, Daniel W. Book review. **11:** 255—1940
Massa, Frank. Microphone efficiency: a discussion and proposed definition. **11:** 164(A), 222—1939
Maxfield, J. P. (see Potwin, C. C.) **11:** 48, 162(A)—1939
—— **and C. C. Potwin.** Planning functionally for good acoustics. **11:** 375(A), 390—1940
Montgomery, H. C. Hearing survey at the New York and San Francisco World's Fairs. **11:** 378(A)—1940
Morrical, Keron C. Sound insulation characteristics for ideal partitions. **11:** 164(A), 211—1940
Morris, R. M. and G. M. Nixon. Discussion. **11:** 102—1939
Morse, Philip M. Some aspects of the theory of room acoustics. **11:** 56—1939
—— Transmission of sound inside pipes. **11:** 205—1939

Nixon, G. M. (see Morris, R. M.) **11:** 102—1939
Norris, R. F. Discussion. **11:** 103—1939

Oliver, Dorothy (see Brown, Spencer F.) **11:** 376(T)—1940

Parkinson, John S. Adaptation of acoustical materials to auxiliary functions. **11:** 375(A)—1940
—— Discussion. **11:** 97—1939
Pellam, John R. Sound diffraction and absorption by a strip of absorbing material. **11:** 396—1940
Pepinsky, Abe. Pitch as a function of the amount and rate of frequency modulation. **11:** 376(T), 381(A)—1940
Peterson, E. D. Nonlinear characteristics of cutting heads. **11:** 380(T)—1940

Phelps, W. D. Sound source for investigating microphone distortion. **11**: 164(A), 219—1940
Pierce, J. A. (see Hunt, F. V.) **11**: 379(A)—1940
Potwin, C. C. (see Maxfield, J. P.) **11**: 375(A), 390—1940
—— **and J. P. Maxfield.** Modern concept of acoustical design. **11**: 48, 162(A)—1939

Railston, William. Supersonic dispersion in vapors. **11**: 107—1939
Reger, Scott N. Correlations between air and bone conduction acuity measurements in different types of deafness. **11**: 378(A)—1940
Riffolt, N. (see Thompson, L.) **11**: 233—1939
Rogers, Robert. Attenuation of sound in ducts. **11**: 164(A)—1939
—— Attenuation of sound in tubes. **11**: 480—1940

Sabine, Hale J. What acoustical treatment will and will not do. **11**: 375(A)—1940
—— (see Lindahl, Robert) **11**: 379(A), 401—1940
Sabine, Paul E. Architectural acoustics: its past and its possibilities. **11**: 21, 161(A)—1939
—— Measurement of sound absorption coefficients from the viewpoint of the testing laboratory. **11**: 41—1939
—— Measurements in the reverberation chamber. **11**: 159(A)—1939
Saunders, F. A. Conclusions from further measurements on old and new violins. **11**: 165(A)—1939
—— Studies of old and new violins. **11**: 374(T)—1940
Schlenker, Vesper A. Architectural acoustic testing with electro-thermal noise as a test source. **11**: 164(A)—1939
Scott, H. H. Degenerative sound analyzer. **11**: 225—1939
Small, Arnold. Tone production on the stringed instrument. **11**: 374(T), 381(A)—1940
Snidecor, J. C. Comparative study of vocal pitch in impromptu speaking and oral reading of the same material. **11**: 376(T)—1940
Stanton, G. T. Correlation of sound absorption coefficients with field measurements. **11**: 45—1939
—— Measurements in the field. **11**: 160(A)—1939
Steinberg, John C. Speech production as revealed by vocal cord photography and sound wave analysis. **11**: 373(A)—1940
—— **and Mark B. Gardner.** On the auditory significance of the term hearing loss. **11**: 270—1940
Stewart, G. W.: Book review. **11**: 369—1940
—— (see Corey, Victor B.) **11**: 378(A)—1940
Stewart, J. K. and R. C. Colwell. Calculations of Chladni patterns. **11**: 147—1939
Stoddard, Dean George D. Tribute to Professor George Walter Stewart and Dean Carl Emil Seashore. **11**: 267—1940
Strother, Charles R. Use of an extrinsic laryngeal muscle as an abductor of the vocal cords. **11**: 376(T)—1940

Thompson, L. Propagation of shock waves in air. II. **11**: 245—1939
—— **and N. Riffolt.** Propagation of shock waves in air. I. **11**: 233—1939
Thomson, William T. Effect of rotatory and lateral inertia on flexural vibration of prismatic bars. **11**: 198—1939
Trimmer, John D. Resonant frequencies of certain pipe combinations. **11**: 129—1939
Tuthill, Curtis (see Lewis, Don) **11**: 451—1940

Veneklasen, P. S. (see Frick, R. H.) **11**: 166(A)—1939

Waterfall, Wallace. Events leading to the formation of the Acoustical Society of America. **11**: 11, 161(T)—1939
Watson, F. R. Discussion. **11**: 105—1939
—— Journal of the Acoustical Society of America. **11**: 15, 162(A)—1939
Watson, N. A. Selective amplification in hearing aids. **11**: 377(A)—1940
—— **and V. O. Knudsen.** Selective amplification in hearing aids. **11**: 406—1940
Wever, Ernest Glen, Charles W. Bray and Merle Lawrence. Locus of distortion in the ear. **11**: 427—1940
White, S. D. (see Dunn, H. K.) **11**: 278, 374(A)—1940
Williamson, Chas. Design for a keyboard instrument in just intonation. **11**: 216—1939
Willig, F. J. Possible variation of sound absorption coefficients with intensity. **11**: 95, 160(A)—1939

Young, Robert W. Book review. **11**: 369—1940
—— Terminology for logarithmic frequency units. **11**: 134, 166(A)—1939

Analytic Subject Index to Volume 11

Numerals in bold face type refer to volume numbers. (S) designates supplements; (T) designates title only; (L) designates Letter to the Editor

1. Acoustical Society of America

1.1 General, Unclassified

Acoustical Society news. Translation service. **11**:486—1940

Acoustical Society of America. Its aims and trends. Harvey Fletcher. **11**: 13—1939

Journal of the Acoustical Society of America. F. R. Watson. **11**: 15—1939

ABSTRACT

Journal of the Acoustical Society. F. R. Watson. **11**: 162—1939

1.2 Constitution and By-Laws

Constitution and by-laws. **11**: 171(S)—1939

1.3 History

Events leading to the formation of the Acoustical Society of America. Wallace Waterfall. **11**: 11—1939

History. **11**: 173(S)—1939

Past and present officers of Acoustical Society. **11**: 170(S)—1939

Past members of Executive Council. **11**: 170(S)—1939

SUBTITLES

History of the journal. F. R. Watson. **11**: 15—1939

Number of members, journal subscribers, and total expenditures each year. Harvey Fletcher. **11**: 14—1939

1.5 Meetings

Acoustical Society news. **11**: 152, 254—1939; 362, 486—1940

Program of the tenth anniversary meeting, New York, New York, May 15, 1939. **11**: 159—1939

Program of the twenty-second meeting, Iowa City, Iowa, November 2, 1939. **11**: 373—1940

Tenth anniversary meeting (general information). **11**: 1—1939

1.6 Members and Membership Lists

J. E. R. Constable, obituary notice. **11**: 152—1939

Edward Elway Free, obituary notice. **11**: 363—1940

Geographical index of members. **11**: 182(S)—1939

Membership list, July, 1939. **11**: 174(S)—1939

New members. **11**: 254—1939; 362, 486—1940

Photograph of Acoustical Society organization group, 1928. **11**: 2—1939

Photograph of G. R. Anderson. **11**: 4—1939

Photograph of banquet, tenth anniversary meeting. **11**: 3—1939

Photograph of Sir William Bragg. **11**: 4, 5—1939

Photograph of Léon Brillouin. **11**: 4—1939

Photograph of F. A. Firestone. **11**: 4, 16—1939

Photograph of Harvey Fletcher. **11**: 4, 13—1939

Photograph of E. E. Free. **11**: 1—1939

Photograph of V. O. Knudsen. **11**: 4, 29—1939

Photograph of J. P. Maxfield. **11**: 4—1939

Photograph of D. C. Miller. **11**: 4—1939

Photograph of Madeline M. Mitchell. **11**: 17—1939

Photograph of G. M. Nixon. **11**: 1—1939

Photograph of P. E. Sabine. **11**: 4, 21—1939

Photograph of F. A. Saunders. **11**: 4, 5—1939

Photograph of J. C. Steinberg. **11**: 1—1939

Photograph of Wallace Waterfall. **11**: 4, 11—1939

Photograph of F. R. Watson. **11**: 4, 5, 15—1939

Photograph of E. C. Wente. **11**: 18—1939

John Redfield, obituary notice. **11**: 254—1939

Tribute to Professor George Walter Stewart and Dean Carl Emil Seashore, November 4, 1939. George D. Stoddard. **11**: 267—1940

SUBTITLE

Number of members, journal subscribers, and total expenditures each year. Harvey Fletcher. **11**: 14—1939

1.7 Letters to the Editor

"Bells." Jan Arts. **11**: 485(L)—1940

2. Architectural Acoustics

2.1 General, Unclassified

PAPERS

Architectural acoustics: Its past and its possibilities. Paul E. Sabine. **11**: 21—1939

Some practical aspects of architectural acoustics. Vern O. Knudsen. **11**: 383—1940

Sound in the theater. Harold Burris-Meyer. **11**: 346—1940

ABSTRACT

Architectural acoustics, its past and its possibilities. P. E. Sabine. **11**: 161—1939

2.2 Auditorium Design

PAPERS

Modern concept of acoustical design. C. C. Potwin and J. P. Maxfield. **11**: 48—1939

Planning functionally for good acoustics. J. P. Maxfield and C. C. Potwin. **11**: 390—1940

Some practical aspects of architectural acoustics. Vern O. Knudsen. **11**: 383—1940

Sound in the theater. Harold Burris-Meyer. **11**: 346—1940

SUBTITLE

Suggestions on auditorium design. C. C. Potwin and J. P. Maxfield. **11**: 55—1939

ABSTRACTS

Modern concept of acoustical design. C. C. Potwin and J. P. Maxfield. **11**: 162—1939

Planning functionally for good acoustics. J. P. Maxfield and C. C. Potwin. **11**: 375—1940

Practical application of acoustical correction in university buildings. George L. Horner. **11**: 375—1940

Some practical aspects of architectural acoustics. Vern O. Knudsen. **11**: 375—1940

2.3 Studies of Existing Auditoria

SUBTITLES

Measured frequency reverberation characteristic, Temple of Religion, New York World's Fair. C. C. Potwin and J. P. Maxfield. **11**: 52—1939

Some typical errors in room acoustics. Vern O. Knudsen. **11**: 385—1940

Voder room. Bell System exhibit. C. C. Potwin and J. P. Maxfield. **11**: 53—1939

2.4 Sound Absorption, Theory and Methods of Measurement

PAPERS

Absorption coefficient problem. F. V. Hunt. **11**: 38—1939

Correlation of sound absorption coefficients with field measurements. G. T. Stanton. **11**: 45—1939

Discussion of absorption coefficient symposium. V. L. Chrisler **11**: 96, John S. Parkinson 97, L. Brillouin 100, George S. Field 101, R. M. Morris and G. M. Nixon 102, C. R. Jacobs 102, R. F. Norris 103, Carl F. Eyring 104, F. R. Watson 105, V. O. Knudsen 105, F. V. Hunt 106—1939

Measurement of absorption coefficients and the application of acoustical absorbents. A symposium. **11**: 37—1939

Measurement of sound absorption coefficients from the viewpoint of the testing laboratory. Paul E. Sabine. **11**: 41—1939

On sound propagation at grazing incidence to porous materials. K. Schuster (Akustische Zeits. **4**, 335 (1939)). **11**: 489—1940

Possible variation of sound absorption coefficients with intensity. F. J. Willig. **11**: 95—1939

Sound diffraction and absorption by a strip of absorbing material. John R. Pellam. **11**: 396—1940

Vibratory characteristics of vibrafram. L. B. Ham and H. T. Darracott. **11**: 333—1940

SUBTITLES

Absorbing material containing punched holes. John R. Pellam. **11**: 399—1940

Comparison of absorption coefficients as measured at the National Bureau of Standards and at Riverbank Laboratories. Paul E. Sabine. **11**: 42—1939

Normal impedance. Philip M. Morse. **11**: 56—1939

Variation in measured coefficient with area and magnitude of absorption coefficient. V. L. Chrisler. **11**: 97—1939

Variation of acoustic impedance ratio with frequency, for different positions of absorbing material in a room. Richard H. Bolt. **11**: 78—1939

ABSTRACTS

Adaptation of acoustical materials to auxiliary functions. John S. Parkinson. **11**: 375—1940

Architectural acoustic testing with electro-thermal noise as a test source. Vesper A. Schlenker. **11**: 164—1939

Comments on paper by Professor F. V. Hunt at the meeting of the Acoustical Society of America at Iowa State University. H. J. Hasbrouck. **11**: 382—1940

Measurements in the field. G. T. Stanton. **11**: 160—1939

Measurements in the reverberation chamber. P. E. Sabine. **11**: 159—1939

Parasitic infestations in acoustical materials. J. Woolson Brooks. **11**: 375—1940

Possible variation of sound absorption coefficients with intensity. F. J. Willig. **11**: 160—1939

Research on the absorption coefficient problem. F. V. Hunt. **11**: 159—1939

What acoustical treatment will and will not do. Hale J. Sabine. **11**: 375—1940

2.5 Measured Sound Absorption Coefficients

PAPER

Vibratory characteristics of vibrafram. L. B. Ham and H. T. Darracott. **11**: 333—1940

SUBTITLES

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PAPERS

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PAPERS

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2.10 Measurements of Sound Transmission

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ABSTRACTS

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4.2 Anatomy and Physiology of the Ear

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4.4 Deafness

PAPERS

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PAPER

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4.6 Loudness. Threshold Determinations

PAPERS

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5.3 Acoustical Impedance Measurement (see also 11.4)

PAPERS

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PAPER

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SUBTITLE
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PAPER
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SUBTITLE
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ABSTRACTS
Table relating frequency to cents. Robert W. Young. Book. **11:** 255—1939
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PAPERS
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ABSTRACT
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5.11 Oscillators

ABSTRACT
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5.13 Public Address Systems and Sound Picture Installations

PAPER
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ABSTRACT
Sound in the theater. Harold Burris-Meyer. **11:** 374(T), 380—1940

5.15 Sound Level Meters. Level Recorders. Sound Pressure Measurement (see also 5.4)

PAPERS
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PAPER

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ABSTRACT

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PAPER

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6.5 Organs (see also 6.9)

PAPERS

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SUBTITLE

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6.6 Pianos

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Influence of the soundboard on piano tone quality. Paul H. Bilhuber and C. A. Johnson. **11:** 311—1940

SUBTITLES

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ABSTRACTS

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PAPERS

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ABSTRACT

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7. Noise

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PAPERS

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7.7 Machinery Noise

SUBTITLES

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ABSTRACT

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9.1 General, Unclassified

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Sound in the theater. Harold Burris-Meyer. **11:** 346—1940

Statistical measurements on conversational speech. H. K. Dunn and S. D. White. **11:** 278—1940

SUBTITLE

Emotional content of speech versus speech pitch. Grant Fairbanks. **11:** 459—1940

ABSTRACTS

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SUBTITLE

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9.5 Frequency Analyses of Vowels and Other Speech Sounds

PAPER

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9.6 Instruments Relating to Speech and Singing

PAPERS

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ABSTRACTS

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PAPER

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ABSTRACTS

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9.8 Speech Power. Singing Voice Power

PAPER

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SUBTITLES

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R.m.s. pressures in one-eighth-second intervals. H. K. Dunn and S. D. White. **11:** 279—1940

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ABSTRACT

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10. Supersonics (Ultrasonics)

10.1 General, Unclassified

SUBTITLE

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ABSTRACTS

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10.4 Gases, Supersonic Velocities, Dispersion, and Absorption (see also 11.3)

PAPER

Supersonic dispersion in vapors. William Railston. **11:** 107—1939

SUBTITLES

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ABSTRACT

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10.6 Solids, Supersonic Velocities, Dispersion, and Absorption

SUBTITLE

On testing of metals by supersonics. Fritz Kruse. **11**: 367—1940

10.7 Physical Effects of Supersonic Waves

SUBTITLE

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11. Waves and Vibrations

11.1 General, Unclassified

PAPER

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11.2 Diffraction and Interference

PAPER

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11.3 Propagation of Sound. Absorption During Propagation. Velocity of Sound

SUBTITLE

Normal modes and damping of gas bubbles in liquids. E. Meyer and K. Tamm. **11**: 366—1940

11.4 Radiation from Vibrating Objects. Acoustical Impedance. Mechanical Impedance (see also 5.3)

PAPERS

Construction and properties of a variable acoustic resistance standard. K. Schuster and W. Stöhr (Akustische Zeits. **4**, 263 (1939)). **11**: 492—1940

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SUBTITLE

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ABSTRACT

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11.5 Sounds of Finite Amplitude

PAPERS

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Propagation of shock waves in air. II. L. Thompson. **11**: 245—1939

SUBTITLE

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11.6 Sound Transmission Through Tubes

PAPERS

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Transmission of sound inside pipes. Philip M. Morse. **11**: 205—1939

SUBTITLES

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11.7 Theory of Waves and Vibrating Systems (see also 5.4)

PAPERS

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